

Name VENA CRUISE No. No. Experiment No.

Instructor Date

CUB 82

SAMPLE SHEET

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min.)	DEPTH OF TOW (m.)	VOL. H ₂ O FILTERED (m ³)		
TOTAL PLANKTON DISPL. VOL. (ml.)	TOTAL PLANK. DISPL. VOL. (ml./1000 m ³)	TOTAL PL FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

CRUISE & STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m.)	VOL. H ₂ O FILTERED (m ³)		
V7-1V	35-14.8N	73-40.5W	V-26-55	1900		0-365	73		
2V	32-03	77-44	28	±1900		0-38	8		
3V	32-10	79-20	29	0930		0-33	7		
4V	32-20	79-30	29	1240		0-18	4		
10BL	26-14	77-50	VI-2-55	2105	20	0-11			
20BL	26-13	78-11	3	0010	10	0-26			
30BL	26-18	78-13	3	0205	20	0-31			
40BL	26-28	78-32	3	0520	30	0-41			
50BL	26-22	78-15	3	1250	25	0-27			
5V	25-53	78-10.5	3	1930	±10	0-45	9		
6V	25-17	77-34	5	1030		0-45	9		
7V	25-17	77-34	5	1115		0-136	27		
8V	25-19	77-36	5	1300	10-15	0-45	54		
9V	25-19	77-36	5	1330	20	0-545	109		

Name VERMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

TOTAL PLANK. DISPL. VOL. (ML.)	TOTAL PLANK. DISPL. VOL. (ML./1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						24.44			SURF.
						24.67			SURF.
						22.33			31M.
						25.00			SURF.
						26.83			SURF.
						26.67			SURF.
						25.83			31M.
						26.61			SURF.
						26.61			40M.
						26.67			SURF.
						25.28			46M.
						27.22			SURF.
						26.78			32M.
						26.67			SURF.
						25.56			50M.
						26.39			SURF.
						26.39			SURF.
						26.39			SURF.
						26.39			SURF.

Name VEMA 7

No. Experiment No.

Instructor Date

CUB 82

CRUISE # STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	DK. H ₂ O FILTERED (M ³)		
V7-10V	25-19N	77-36W	VI-5-55	1830		0-117	23		
11V	25-19	77-36	5	2000		0-548	109		
12V	25-06	76-04	11	0845		0-59	24		
13V	25-06	76-04	11	0915		0-125	25		
14V	23-15	74-17	12	2145	15	0-43	16		
15V	23-15	74-17	12	2230	15	0-110	22		
16V	24-14	74-14	13	1345	15-20	0-90	36		
17V	24-14	74-14	13	1415	15-20	0-235	47		
18V	24-13	74-16	13	2030	10-15	0-53	22		
19V	24-13	74-16	13	2100	15	0-137	27		
20V	25-05	71-50	14	1815	10-15	0-47	18		
21V	25-05	71-50	14	1830	15	0-108	22		
22V	25-05	70-06	15	1030	10-15	0-68	26		
23V	25-05	70-06	15	1100	15-20	0-335	67		

Name VENIA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

TOTAL PLANK DISPL. VOL. (ML.)	TOTAL PLANK DISPL. VOL. (ML./1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATES FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						26.39			SURF.
						23.89			98M.
						26.39			SURF.
						26.72			SURF.
						25.00			64M.
						26.72			SURF.
						23.33			92M.
						27.78			SURF.
						25.00			47M.
						27.78			SURF.
						22.78			101M.
						27.83			SURF.
						23.89			95M.
						27.83			SURF.
						23.33			95M.
						27.67			SURF.
						27.67			SURF.
						27.78			SURF.
						27.78			SURF.
						27.44			SURF.
						22.78			73M.
						27.44			SURF.
						21.11			107M.

Name Vema 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

Cruise Sta. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF Tow (m.)	VOL. H ₂ O FILTERED (m ³)		
V7-24V	23-28N	65-56W	VI-17-55	915	20	0-90	18		
25V	23-28	65-56	17	945	15	0-52	20		
26V	23-28	65-56	17	1015	30	0-305	61		
27V	23-27	66-11	18	0830	15-20	0-52	20		
28V	23-27	66-11	18	0900	20	0-115	23		
29V	24-27.5	69-10	21	0045	10	0-52	20		
30V	24-27.5	69-10	21	0110	12	0-112	22		
31V	24-27.5	69-10	21	0145	17	0-275	55		
32V	24-27.5	69-10	21	0210	20	0-335	67		
33V	24-32	69-29	21	1535	10	0-52	20		
34V	24-32	69-29	21	1555	13	0-122	24		
35V	24-32	69-29	21	1625	23	0-437	87		
36V	24-32	69-29	21	1725	10		20		
37V	24-32	69-29	21	1740	10	0-110	22		

Name _____

7 MAY 1954

No.

Experiment No.

Instructor

Date _____

CUB 62

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Name VEMA 7

No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

CRUISE & STA. NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
V7-38V	24-32N	69-29W	VI-21-55	1755	18	0-273	55		
39V	24-30N	70-26W	22	945	12	0-112	22		
40V	SAMPLE BROKEN								
41V	24-30	70-26	22	1100	21	0-305	61		
42V	25-42	69-26	23	1245	10	0-52	20		
43V	25-42	69-26	23	1315	10	0-110	22		
44V	25-42	69-26	23	1350	18	0-400	80		
45V	25-54	70-29	24	0010	8	0-52	20		
46V	25-54	70-29	24	0040	9	0-113	22		
47V	25-54	70-29	24	0100	26	0-530	106		
48V	27-20	69-25	24	1540	7	0-52	20		
49V	27-20	69-25	24	1535	10	0-113	22		
50V	27-20	69-25	24	1630	75	0-530	106		
51V	28-06	71-36	25	1100	70	0-110	10		

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

TOTAL PANK. DISPL. VOL. (ML.)	TOTAL PANK. DISPL. VOL. (ML./1000M ³)	TOTAL DL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						27.67			SURF
						27.39			SURF
						22.78			96M.
						27.39			SURF.
						27.67			SURF
						27.67			SURF
						22.78			95M
						27.67			SURF
						27.28			SURF
						27.28			SURF
						21.67			107M
						27.28			SURF
						27.56			SURF
						27.56			SURF
						22.22			109M.
						27.56			SURF
						27.22			SURF

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 52

CRUISE # STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED M ³		
V7-52V	28-06N	71-36W	11-25-55	1215	10	0-52	20		
53V	28-06	71-36	25	1245	20	0-122	25		
54V	SAMPLE BROKEN								
55V	28-35	70-54	25	1845	7	0-52	20		
56V	28-35	70-54	25	1900	10	0-110	22		
57V	28-35	70-54	25	1925	27	0-510	102		
58V	29-10	69-53	26	1415	10	0-52	20		
59V	29-10	69-53	26	1445	10	0-130	26		
60V	29-10	69-53	26	1515	12	0-510	102		
1CB	28-39	70-53	26	0040	30	±0-61			
2CB	30-02	70-21	27	0100	30	± ±0-46			
61V	30-17	71-03	27	1155	10	0-137	27		
62V	30-17	71-03	27	1220	15	0-60	12		
63V	30-17	71-03	27	1255	44	0-510	102		

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 52

TOTAL PLANKTON DISP. VOL. (ML.)	TOTAL PLANK. DISP. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						27.22			SURF
						27.22 20.56			SURF. 107M
						27.11 20.00			SURF. 107M.
						27.11 20.00			SURF 107M
						27.11			SURF
						27.11			SURF
						27.11			SURF.
						27.11			SURF.
						27.11			SURF
						25.44 18.89			SURF 107
						26.00 20.00			SURF. 102M.
						26.00			SURF
						26.00			SURF

Name VEWA 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V-64V	31-41N	71-18W	VI-27-55	1915	8	0-67	13		
65V	31-41	71-18	27	1940	10	0-122	29		
66V	31-41	71-18	27	1955	40	0-510	102		
3aBC	31-42	70-47	28	0330	90	0-46			
3BC	31-42	70-47	28	2105					
4ABC	31-42	70-47	28	2035	30				
4bBC	31-42	70-47	28	2340					
1SURF	31-42	70-47	28	2230	45	SURF.			
67V	31-23	66-36	29	1330	15	0-67	13		
68V	31-23	66-36	29	1430	35	0-122	29		
69V	31-23	66-36	29	1530	58	0-510	102		
5acb	31-22.5	66-32	29	1640	30				
5bcb	31-22.5	66-32	29	1750	30				
5ccb	31-22	66-28	29	1835	30				

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 62

TOTAL PLANK DISPL. VOL. (ML.)	TOTAL PLANK DISPL. VOL. (ML./1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						25.00			SURF
						25.00			SURF
						25.00			SURF
						25.00			SURF

Name Vema 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OR TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED M ³		
V 7-5 dec 6	31-22 N	66-28 W	VI-29-55	1935	30				
2 SURF			30	0015	15	SURF.			
3 SURF	37-53	64-59	VII-9-55		18	SURF.			
70V	39-32	64-56	10	1106	24	0-50	10		
71V	39-32	64-56	10	1219	21	0-100	20		
72V	38-46	64-09	11	0024	23	0-50	10		
73V	38-46	64-09	11	0058	22	0-100	20		
74V	38-46	64-09	11	0131	45	0-500	180		
75V	37-52	63-10	11	1310	10	0-50	10		
76V	37-45	63-08	11	1650	20	0-100	20		
77V	37-45	63-08	11	1842	52	0-500	100		
78V	38-03	61-45	12	2205	14	0-50	10		
79V	38-03	61-45	12	2245	10	0-100	20		
80V	38-03	61-45	13	0000	42	0-500	180		

Name Vema 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 92

TOTAL PANKT. DISPL. VOL. (ml.)	TOTAL PANKT. DISPL. VOL. (ml/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						22.94			SURF
						22.89			SURF
						22.89			SURF
						26.00			SURF
						26.22			SURF
						26.22			SURF
						25.28			SURF
						25.28			SURF
						25.28			SURF

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 32

CRUISE # STA. NO.	LAT.	LONG	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	Vol. H ₂ O FILTERED (M ³)		
V7-81V	38-58N	58-20W	VII-15-55	1030	14	0-50	10		
82V	38-58	58-20	15	1105	10	0-100	20		
83V	38-58	58-20	15	1218	10	0-500	100		
6CB			15	1420	305	0-31			
7CB			15	1753	82	0-61			
84V	38-56	57-09	16	0602	24	0-50	10		
85V	38-56	57-09	16	0637	34	0-100	20		
86V	38-56	57-09	16	0705	45	0-500	100		
87V	38-56	57-09	16	0803	24	0-100	20		
88V	39-27	56-55	16	1334	16	0-50	10		
89V	39-27	56-55	16	1412	21	0-100	20		
90V	39-27	56-55	16	1450	43	0-500	100		
91V	39-44	55-45	17	0517	21 1/2	0-50	10		
92V	39-46	55-45	17	0601	27	0-100	20		

Name VEMA 7

No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARA- TION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						25.83			SURF
						25.83			SURF
						25.83			SURF
						26.56			SURF
						26.56			SURF
						26.56			SURF
						26.56			SURF
						26.78			SURF
						26.78			SURF
						26.78			SURF
						25.28			SURF
						25.28			SURF

Name VEMA 7

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION No	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
V7-93V	39-46N	55-45W	VII-17-55	0706	44	0-500	100		
94V	39-52	54-43	17	1835	15	0-50	10		
95V	39-52	54-43	17	1915	18	0-100	20		
96V	39-52	54-43	17	1753	21	0-500	100		
97V	39-10	53-31	18	0613	16	0-50	10		
98V	39-10	53-31	18	0646	19	0-100	20		
99V	39-10	53-31	18	0805	38	0-500	100		
100V	38-41	52-49	18	1529	14	0-50	10		
101V	38-41	52-49	18	1600	20	0-100	20		
102V	38-41	52-49	18	1635	39	0-500	100		
103V	37-57	50-54	19	0614	15	0-50	10		
104V	37-57	50-54	19	0643	29	0-100	20		
105V	37-57	50-54	19	0725	55	0-500	100		
106V	38-50	51-32	19	1520	14	0-50	10		

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 62

PL. DISPL. VOL (ML)	TOTAL PL. DISPL. VOL. (ML / 1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC.	DEPTH
						25.28			SURF
						26.39			SURF
						26.39			SURF
						26.39			SURF
						22.83			SURF
						22.83			SURF
						22.94			SURF
						23.61			SURF
						23.61			SURF
						23.61			SURF
						25.0			SURF
						25.0			SURF
						25.0			SURF
						25.61			SURF

Name Vema 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

CRUISE & STA. NO.	LAT.	LONG.	DATE	TIME	TIME OF TOW (MIN)	DEPTH OF TOW (M)	Vol. H ₂ O FILTERED (L)	
V7-107U	38-50N	51-32W	VII-19-55	1559	18	0-100	20	
108U	38-50	51-32	19	1649	40	0-500	100	
109U	34-45	52-47	21	1541	15	0-50	10	
110U	34-45	52-47	21	1615	17	0-100	20	
111U	34-45	52-47	21	1645	52	0-500	100	
4SURF	34-53	52-58	21	2240	15	SURF		
7CB	35-4		21	1753	82	0-200		
8CB			21	1826	49	0-350		
9CB			21	1826	49	0-450		
10CB			22	1531	80	0-600		
11CB			22	1531	80	0-700		
112U	35-24N	53-38W	22	0535	24	0-50	10	
113U	35-24	53-38	22	0613	26	0-100	20	
114U	35-24	53-38	22	0701	45	0-500	100	

Name Vema T

No. Experiment No.

Instructor Date

CUB 32

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Name Vema 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 52

CRUISE & STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED M ³		
U7-115V	35-43N	53-17W	VII-21-55	1309	14	0-50	10		
116V	"	"	"	1335	15	0-100	20		
117V	"	"	"	1410	32	0-500	100		
5 SURF	35-53	53-41	"	2137	15	SURF			
120B			23	0653	74	0-100			
130B			"	0653	74	0-1200			
118V	36-56	53-56	"	0535	20	0-50	10		
119V	"	"	"	0634	18	0-100	20		
120V	"	"	"	0716	50	0-500	100		
121V	37-23	53-22	"	1350	13	0-50	10		
122V	37-23	53-22	"	1415	28	0-100	20		
123V	"	"	"	1500	31	0-500	100		
CB? 14			"	1451	69	0-800			
CB? 15			"	1451	69	0-900			

Name JEMAT No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

PK. DISPL. VOL. (ML)	TOTAL PLANK. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						25.50			SURF
						25.50			SURF
						25.50 18.33			SURF 83 83
						26.33			SURF
						25.22			SURF
						25.22 18.33			SURF 78
						25.83			SURF
						25.83			SURF
						25.94 18.89			SURF 127

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 32

CRUISE & STA. No.	LAT.	LONG	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)	
V7-CB?16			VII-29-55	0741	124	0-600		
CB?17			"	0741	124	0-700		
CB?18			"	1808	52	0-300		
CB?19			"	1808	52	0-400		
124V	37-29N	54-53W	"	0640	21	0-50	10	
125V	"	"	"	0733	18	0-100	20	
126V	"	"	"	0803	42	0-500	100	
127V	38-18	55-15	"	1708	23	0-50	10	
128V	"	"	"	1745	30	0-100	20	
129V	"	"	"	1836	36	0-500	100	
130V	38-06	56-46	25	0749	26	0-50	10	
131V	"	"	"	0834	23	0-100	20	
132V	"	"	"	0921	32	0-500	100	
6SURF	36-28	56-29	"	2223	7	SURF.		

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

PL. DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						25.39			SURF
						25.39			SURF
						25.39 18.89			SURF 96
						25.67			SURF
						25.61			SURF
						25.61 19.00			SURF 111
						25.28			SURF
						25.28			SURF
						25.28 18.33			SURF 102

Name VEMA 7

No. Experiment No.

Instructor Date

CUB 52

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V7-133V	35-30N	55-47W	VII-26-55	0923	17	0-50	10		
134V	"	"	"	1015	21	0-100	20		
135V	"	"	"	1045	35	0-500	100		
136V	35-00	57-12	27	0718	25	0-50	10		
137V	"	"	"	0750	22	0-100	20		
138V	"	"	"	0831	31	0-500	100		
7 _{SURF}	35-05	56-38	"	2200	5	SURF			
CB? 20			31						
CB? 21			31						
VERTICAL R/V7-1 SERIES	32-39N	64-23W	VIII-5-55	0048	7	0-25	490		
2	"	"	"	0140	6	0-50M	420		
3	"	"	5 5	0202	11	0-50	770		
4	"	"	"	0220	25	0-400	1750		
5	"	"	"	0617	33	0-320	2300		

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						26.56			SURF
						26.56			SURF
						26.56			SURF
						26.78			SURF
						26.78			SURF
						26.78			SURF
						26.61			SURF
37	76								
2	5								
8	10								
1	0.5								

Name Vema 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED m ³		
RV7-6	32-39N	64-23W	VIII-5-55	0911					
7	"	"	"	1255	10	20-60	1410 700		
8	"	"	"	1318	22		1540		
9	"	"	"	1405	15		1050		
10	"	"	"	1452	43		3000		
11	"	"	"	1621	59		1050		
12	60-14W 34-10N 60-14W		7	1613	23	0-300	1410 25		
13	35-14N	59-30W	8	0649	21	0-300	23		
14	35-20N	58-23W	"	1822	31	0-300	30		
15	35-07N	57-34W	9	1638	29	0-300	30		
16	35-11	57-36	"	1707	14	0-150	15		
17	35-28	58-50 57-50	10	0612	23	0-518	25		
18	35-20	57-35	"	1345	12	0-518	12		
19a	56-46	36-32	VIII-11-55	1447	31	0-300	30		
b				1452	25	0-300	1750		

Name Vema 7 No. Experiment No.

Instructor Date

CUB 82

PLANKTON TOTAL PL. DISPL. Vol. (ML.)	TOTAL PL. DISPL. Vol. (ML./1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
24 ML	17 ML								
14	10								
2	2								
25	8								
2	2								
24	24								
8	32								
10	44								
12	40								
10									
6	40								
2									
16	53								
74	44								

Name Vema 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	Vol. H ₂ O FILTERED (M ³)		
RJT-20a	32-39N	64-23W	11-12-55	0635	31	0-300	33		
b	37-55N	59-05W			24	0-300	1750		
21a	61-10	38-12	"	1940	24	0-300	22		
b					20	0-300	1400		
22	"	"	"	2140	55	0-1	50		
23a	38-37N	63-10W	13	1809	39	0-300	40		
b					33	0-300	2300		
24a	38-37N	63-10W	"	1841	27	0-300	27		
b					21	0-300	1470		
25a	39-55N	64-00W	14	0927	31	0-300	30		
b					26	0-300	1900		
26a	40-56	62-55	"	1754	25	0-300	28		
b					18	0-300	1400		
27a	42-53	62-07	15	0855	28	0-300			
b					22	0-300			
28a	42-57	61-48	"	1740	26	0-300	30		
b					22	0-300	1600		
29a	43-48	61-10	16	0823	32	0-300	30		
b					24	0-300	1700		
30a	43-18	58-35	"	1745	30	0-300	30		
b						0-300			
31a	42-40	60-00	17	1751		0-300	30		
b						0-300	2100		
32a	42-21	57-07	18	0854	30	0-300	30		
b					22	0-300	1600		
33a	41-55	55-25	"	1749	23	0-300	27		
b					19	0-300	1400		

Name Verna 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

TOTAL PL. DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
12	37								
38	22								
11									
14	10								
3									
10	37								
10	37								
40	26								
9	37								
62	33								
18	60								
76	54								
12	40								
53	33								
4	12								
21	13								
3	10								
38	22								
4	12								
17	9								
3	10								
66	32								
12	40								
32	20								
18	67								
64	46								

Name VEAL 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
RV7-34 _a	41-15N	52-42W	VIII-19-55	0848	31	0-300	30		
6					27	0-300	1900		
35 _a	40-52	51-07	19	1752	23	0-300	25		
6					18	0-300	1400		
36 _a	40-17	48-54	20	0836	30	0-300	30		
6					26	0-300	1800		
37 _a	39-06	48-38.5	"	1749	32	0-300	35		
6					26	0-300	1800		
38 _a	34-45	50-14	22	0841	33	0-300	30		
6					27	0-300	1900		
39 _a	34-18	51-22	"	1740	31	0-300	30		
6					26	0-300	1800		
40 _a	33-15	53-37	23	0846	31	0-300	30		
6					26	0-300	1800		
41	32-53	55-03	"	1745	23	0-300	27		
					19	0-300	1300		
42	32-20	61-30	24	0835	29	0-300	29		
					24	0-300	1600		
43	32-20	61-00	24	1752	36	0-300	37		
					28	0-300	2100		
44	32-30	64-30	25	0845	38	0-300	38		
					27	0-300	1800		
45 _a			25	1756	39	0-300	39		
6					28	0-300	1900		
46 _a			26	0200	49	0-300	49		
6					39	0-300	2300		
47	32-30	64-30	"	0250			85		
48			"						

Instructor **Date**

Name Vema 8 No. Experiment No.

Instructor Date

CUB 82

	CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW M.	VOL. H ₂ O FILTERED		
1/2 M. TOWS	V8-1	N 20-01.4	W 70-39.9 70-39.9	XI-10-55 70-39.9	1958	31 MIN	185 185	335		
	2	19-32N	68-57.5W	XI-13-55	1420		230	150		
	3	17-05.0	68-59.0	XI-17-55	1800	155	1230	1420		
	4	16-48.2	70-49.0	XI-23-55	2102					
	5	17-05.8	71-37.0	XI-25-55	1903					
	6	16-36.2	72-09.6	26	0131	26	330	252		
	7	15-46.4	72-45.0	26	0925	81	850	500		
	8	15-09.5	73-25.8	27	0215	26	210	301		
	9	14-22.6	74-11.4	27	1826					
	10	11-54.7	75-42.6	28	1634	27	365	229		
	11	11-32.6	75-54.5	29	2420	26	380	168		
	12	11-33.9	75-43.3	29	1705	26	380	210		
	13	12-23.3	77-46.5	30	2030	28	390	204		
	14	11-16.8	79-13.1	XII-1-55	1100	27	405	173		
	15	9-34.4 9-34.4	79-46.4 79-46.4	2	0530					

Name

No.

Experiment No. _____

Instructor

Date _____

[illegible]

Name VEMA 8 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW M.	VOL. H ₂ O FILTERED		
V8-16	11-23.2N	77-37.1W	XII-7-55	0630	30	400	210		
17	12-51.2	77-22.0	8	0725	29	380	226		
18	14-46	78-09.3	9	1223	33	365	280		
19	"	"	9	1840	45	375	368		
20	16-16.7	79-13.9	10	1555	49	300	610		
21	17-28.3 17-28.3	76-21.8	13	2030	91	400	610		
22	16-05.2	76-11.3	14	0840	24	370	199		
23	18-05.9	80-23	17	2407	28	380	218		
24	18-13.1	79-33.9	17	1210	40	380	308		
25	18-42.8	79-43.4	18	1930	36	380	280		
26	19-04	80-47.4	20	0900	34	365	289		
27	19-04	80-48	20	1255	237	1270	2460		
28	19-13.1	81-23.7	21	1250	29	410	180		
29	19-46.9	80-40.7	22	0635	382	1400	3820		
30	19-13	79-26.2	23	1430	40	400	260		

Name V E M A 8 No. Experiment No.

Instructor **Date**

CUB 62

[illegible]

Name Vema 8 No. Experiment No.

Instructor Date

CUB 82

CRUISE # STATION No.	LAT.	LONG	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL H ₂ O FILTERED (M ³)
V8-31	19-13 N	78-54.7 ^W	XII-23-55	2316	31	400	217
32	19-10.6	77-56.2	24	1219	74	400	495
33	19-23.3	77-14.9	24	2323	16	360	138
34	19-14	76-51.2	25	1200	143	670	1460
35	19-37.5	76-18	26	0955	65	690	560
36	19-49.6	75-36.8	27	0145		1830	915
37	18-24	75-11	31	0910	22	385	171
38	17-33.9	73-22.1	1-1-56	1454	37	330	363
39	17-31.5	72-31.6	1-2-56	0100	31	350	282
40	17-46	70-05.0	3	1922	43	325	430
41	19-10.9	67-06.0	5	0936	153	400	1020
42	20-32.5	64-52	7	1849	80	385	616
43	19-57.1	65-07.5	8	0940	55	860	294
44	19-41	66-03	9	2401	36	340	320

Name _____

Vema 8

No.

Experiment No.

Instructor

Date _____

TOTAL Pk.
DISPK. UOK
M.H.

TOTAL PL.
DISPL. VOL.
($\text{m}^3/1000 \text{ m}^3$)

TOTAL
PL.
FORAMS

METHOD OF SEPARATION

DATE
SEPARATED

DATE
FORMS
IDENTIFIED

TEMP
(°C)

SALINITY
(‰)

Dr Conc

DEPT 4

Name VEMA 9 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V9B-1	33-30N	67-40W	11-22-56 11-22-56	0435	35	0-395	229		
V9B-2	34-57	68-23	23	0110	30	SURF	232		
V9B-3	37-28	71-36	11-24-56	0838	22	0-395	316		
27	00-23N	29-52W	11-18-56	1456	41	0-500	250		
28	02-54.8	33-10.2	15	0826	50	0-450	250		
29	03-50.1	34-40.5	15	2104	38	0-490	380		
30	06-02.4	36-39.6	16	1705	235	0-1060	675		
33A	20-41.8	51-35.5	.	1323	97	0-1310	665		
33B	22-24.3	54-18.2	14	1515	160	0-800	400		

Name Verna 9 No. _____ Experiment No. _____

Instructor Date

CUB 82

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC	DEPTH
						18.56			SURF
						14.6			SURF

Name VENA 10 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED		
V10-1 FL. 5	32-39N	57-55W	11-5-56	0905	60	0-75			
SPT 1	33-00	49-14	7	1852		0-957			
V10-2 FL. 2	33-00	49-14	7	2030	60	0-75			
V10-3 FL. 3	33-07	42-56	9	1520	120	0-75			
V10-4 FL. 4	33-08	39-49	10	1820	120	0-75			
V10-5 FL. 5	32-55	38-02	11	1410	120	0-.75			
V10-2 SPT 2	31-46	34-36.5	12	00 2408		0-310			
V10-6 FL. 6	31-53	33-03	13	1240	120	0-.75			
V10-3 SPT 3	31-54	31-35	14	1032		0-310			
V10-7 3FL. 7	32-14	21-41	18	1030	60	0-.75			
V10-4 SPT 4	32-21	21-36	18	1642		0-370			
V10-8 FL. 8	33-14	14-15	22	1902	85	0-.75			
V10-9 FL. 9	33-54	11-25	23	1808	75	0-.75			
V10-5 SPT 5			26	1657		0-58.8			
V10-6 SPT 6	36-14	5-10	28	0318		0-155			

Name Vema 10 No. Experiment No.

Instructor Date

CUB 92

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML./1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						22.6			SURF
						23.1 18.33			SURF 92M
						23.1 18.33			SURF 92M
						24.0			SURF
						21.7			SURF
						22.5			SURF
						21.9 18.89			SURF 92M.
						21.7			SURF
						21.0 17.78			SURF 92M.
						19.1			SURF
						19.13			SURF
						19.52			SURF
						19.5			SURF
						20.56 15.0			SURF 92M
						18.89 13.33			SURF 92M.

Name Vema 10 No. _____ Experiment No. _____

Instructor THETA Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OR TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED m ³		
TH - 1x	26-14N	18-05W	9-9-56						
2x	25-14	21-25	10						
3x	24-23	24-07	11						
4x	23-23	27-17	12						
5x	22-55	30-42	13						
6x	22-56	33-31	14						
7x	23-00	36-47	15						
8x	22-59	40-13	16						
9x	23-01	43-48	17						
10x	23-02	47-03	18						
11x	23-23	46-24	18						
12 12 x	24-11	46-21	19						
13 13 x	24-11	47-27	19						
14 14 x	24-58	48-50	20						

Name UEMA 10 No. _____ Experiment No. _____

Instructor THETA Date _____

CUB 32

PLANKTON DISPK. VOL. (ML.)	TOTAL PL. DISPK. VOL. ML./1000m ³	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						23.2			3 SURF
						23.5			SURF
						23.3			SURF
						24.3			SURF
						23.9			SURF
						25.2			SURF
						25.4			SURF
						26.2			SURF
						26.7			SURF
						26.0			SURF
						27.3			SURF
						27.5			SURF
						27.3			SURF

Instructor THETA Date _____

CUB 62

Cruise & Station No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)
TH - 14 15x	26-31N	51-47W	IX-21-56				
16 15 x	27-52	54-38	22				
17 16 x	29-41	58-22	23				
18x	31-25	69-10	25				
19x	31-49	69-43	27				
20x	39-26	72-56	30				

Instructor THETA Date _____

Name VEMA 11 No. Experiment No.

Instructor Date

CUB 82

CRUISE STATION No. LAT. LONG. DATE TIME TOTAL TIME OF TOW (MIN) DEPTH OF TOW (M) Vol. H₂O FILTERED (M³)

VII-FL 1 40-09N 73-21.15W XI-6-56 2051 44 0-.75

SPT 1 40-09 73-21.15 6 2050 0-25

FL 2 39-31.4 72-22 7 0750 32 0-.75

SPT 2 " " " 0754 0-100

SPT 3 39-31 72-23 " 0920 0-500

VS 1 38-22 67-48 XI-11-56 1055 0-25

VS 2 " " " 1200 19? 25-50

VS-2R " " " 1225 26? 25-50

FL 3 38-06 67-41 " 1520 20 0-.75 90

FL 3N 38-06 67-34 " 1810 30 0-.75 41

SPT 4 43-28 64-54.3 13 0920 17 0-113

FL 4 43-46 63-55 15 1442 43 0-0.75 24

FL 5 42-40.5 63-14.5 16 0415 28 0-0.75 36

SPT 5 42-53.5 63-09 " 2225 127

Name VEMA 11 No. Experiment No.

Instructor Date

CUB 62

TOTAL PLANKTON DISPL. VOL. (ML.)	TOTAL PLANK. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						14.06			SURF.
						14.06			SURF.
						19.7			SURF.
						19.7			SURF.
						19.7			SURF.
						21.7			SURF.
						21.7			SURF.
						21.7			SURF.
						22.2			SURF.
						22.2			SURF.
						09.56			SURF.
						11.28			SURF.
						10.33			SURF.

Name _____

No.

Experiment No. _____

Instructor

Date _____

CRUISE &
STATION
NO.

LAT.

LONG.

DATE

TIME

TOTAL TIME
OF TOW
(MIN)

DEPTH
OF TOW
(M)

Vol.
H₂O
FILTERED (in 3)

VII - FZ6

N
42-535

63-09^w

X1-16-56

2311

8

0.75

10

SPT 6

42-36.5

63-18

17

1024

48

0-300

159

FL 7

11

11

11

1013

30

0-75

72

SPT 7

40-31

71-09

XII-6-56

0926

14

0-60

28

Instructor **Date**

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PLANK. DISPL. VOL. ML/1000M ³	TOTAL PL. FORAMS	METHOD OR SEPAR.	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						10.33			SURF
						11.60			SURF
						11.60			SURF
						13.06			SURF

Name VEMA 12

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
V12 - 1	34-38N	66-36W	XII-16-56				124		
2	32-55.6	64-22.4	17				186		
3	32-54.1	33 64-22.1	30				316		
4	16-33.6S	28-05.6W	1-22-57	0600					
5	17-03S	28-13W	22	1635	26				
6	18-51.7	28-37.9	23	1430	29				
7	29-52	36-48	29	1808					
8	36-21.7S	56-22.3W	11-14-57	0800	105				
9	36-39.4	54-16.7	15		2				
10	37-29	54-52.5	16	1345	3				
11	38-02.5	53-34.8	17	1130	30	3-4			
12	40-38.2	55-16.3	19	0715	5	2.1			
13			21	0300	2	3			
14	40-15.0	59-24.8	28	0800	2				

Name Vema 12 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 42

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						19.11			SURF
						17.17			SURF
						15.4			SURF
						18.4			SURF
						17.4			SURF

Name VEMA 12 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)
-------------------------	------	-------	------	------	-------------------------------	---------------------	--

V12- 18 18	40-56S	58-36W	III-1-57	0200	2	0-4	
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19 18	41-53	58-05.5	1	1600	5		
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20 19	44-11.7	56-00.3	2	1200	2		
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21 20	45-20	55-45	3	2300	2	0-4	
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22 21	45-53	57-37		1700			
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23 22	45-54	57-28	4	2330	21		
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24 23	45-54	57-28	4	2330	2		
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25 24	46-28	62-04	19	0930	2		
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Name VEMA 12 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						15.8			SURF
						13.4			SURF
						15.6			SURF
						15.2			SURF
						11.5			SURF
						11.5			SURF
						14.7			

Name VEMA 13 No. Experiment No.

Instructor Date

CUB 52

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW M.	VOL. H ₂ O FILTERED M ³ .		
V13-1			X-22-57	0842	3		4		
2	38-36N	70-41.5W	25	1610	120		287		
3	"	"	"	1345	10		24		
4ABC	"	"	"						
5	39-14.5	70-45	30	1842	25		64		
6	"	"	"	2029	48		282		
MPS 2A BC	39-53.2	70-48.5	31	0845	135				
7	"	"	"	1015	30		443		
8	40-03	71-08	"	1645	30		202		
MPS 3A	38-37	70-43	XI-1-57		35				
9	38-40	71-04	"	1455	30		198		
MPS 4A	39-01	71-41	"	2005					
10	"	"	"	2025	40		155		
11	39-40	72-13.5	2	1245	10				

Name _____

VEMA 13

No.

Experiment No.

Instructor

Date _____

CUB 82

TOTAL PL. DISP. VOL. (ML.)	TOTAL PL. DISP. VOL. (ML/1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						19.4			
						19.4			
						16.89			
						16.89			
						14.44			
						14.44			
						18.44			
						18.44			

Name VEWA 14 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V14-1D	38-03N	70-48W	XI-10-57	1107	38	0-300	257		
1S	"	"	"	1100	25	SURF	150		
2D	37-24	69-06	"	2250	30	0-320	349		
2S	"	"	"	2245	18	SURF	257		
3S	NO SAMPLE								
3D	37-04	67-06	XI-11-57	1047	36	0-300	203		
4S	35-39.5	66-17	"	2248	26	SURF	145		
4D	"	"	"	2258	33	0-301	262		
5S	34-53	65-42	"	1055	30	SURF	155		
6D	34-55	65-58	12	0140	25	0-300	173		
6S	"	"	13	0119	26	SURF			
7D	33-58	65-00	"	1125	40	0-392	383		
7S	"	"	"	1120	28	SURF	88		
8D	32-12.3	64-38	15	1600	33	0-300	128		

Name VEMA 14

No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
7		2564	SALINITY		VIII-1-58	18.3			SURF
1		0741	SALINITY		1-28-59	18.3			SURF
26		2532	SALINITY		VIII-24-58	17.5			SURF
1		0532	SALINITY		11-12-59	17.5			SURF
3		0725	SALINITY		11-17-58	21.9			SURF
4		0504	SALINITY		11-2-59	23.3			SURF
2		0637	SALINITY		11-17-58	23.3			SURF
8		1361	SALINITY		11-3-59	26.1			SURF
6		1119	SALINITY		VIII-19-58	22.2 22.81	36.33 36.51		SURF 100M
3		0391	SALINITY		IV-9-59	22.2			SURF
7		0452	SALINITY		VIII-25-58	22.4			SURF
6		0860	SALINITY		IV-10-59	22.4			SURF
2		0293	TOTAL		11-18-58	25.0			SURF

Name VEMA 14

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min)	DEPTH OF TOW (m.)	VOL. H ₂ O FILTERED (m ³)		
V14-8S	32-12.3N	64-38W	XI-15-57	1550	30	SURF.	47		
9D	29-58	61-38	16	2015	30	0-300	109		
9S	"	"	"	2009	21	SURF.	45		
10D	29-13	60-31	16 17	1358	24	0-311	183		
10S	"	"	"	1355	36	SURF	69		
11D	26-45	58-42	18	1223	30	0-324	101		
11S	"	"	"	1110	50	SURF	163		
12D	23-23	53-26.4	20	1144	28	0-300			
12S	23-23	53-26.4	"	1140	42	SURF	166		
13D	22-10	51-19.2	21	1208	29	0-300	192		
13S	"	"	"	1028	37	SURF	146		
14D	20-43	49-37	22	1100	30	0-300			
14S	"	"	"	1107	28	SURF	95		
15D	20-20	48-49	"	2217	30	0-306	219		

Name V E M A 14

No.

Experiment No.

Instructor

Date

CUB 82

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
4		0893	SALINITY		11-13-59	25.0			SURF
5		0312	TOTAL		11-18-58	24.1	36.67 36.55	4.14 4.35	SURF 100M
						24.1			SURF
2		0309	TOTAL		11-19-58	24.2			SURF
						24.2			SURF.
1		0441	TOTAL		11-19-58	26.1 21.60	36.92 36.76	4.09 4.25	SURF 100M
						26.1			SURF
1		0347	TOTAL		11-19-58	26.1 22.85	36.67 36.87	3.80 4.21	SURF 100M
						26.1			SURF.
1		0213	TOTAL		11-19-58	26.1			SURF
						26.1			SURF
						26.39			SURF
						26.39			SURF
4		0297	TOTAL		11-20-58	26.3			SURF

Name Vema 14 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
V14-15S	20-20N	48-49W	XI-22-57	2215	39	SURF	116		
16D	19-36	47-31	23	1507	29	0-306	203		
16S	19-36	47-31	"	1237	30	SURF	116		
17D	16-45	42-32	25	1025	"	0-300	99		
17S	"	"	"	1020	40	SURF	181		
18D	15-30	40-33	26	1013	27	0-300	102		
18S	"	"	"	1016	31	SURF	99		
19D	15-04	39-44	"	2243	30	0-300	164		
19S	"	"	"	2236	44	SURF	191		
20D	14-27.6	38-53	27	1005	29	0-300	189		
20S	"	"	"	1007	31	SURF	85		
21D	11-52.8	34-48	29	1010	30	0-311	188		
21S	"	"	"	1014	33	SURF.	138		
22D	10-33.6	33-13	30	1942	37	0-370	247		
22S	10-53.6	33-13	"	1200	33	SURF	151		

Name VENA 14

No. Experiment No.

Instructor Date

CUS 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						26.3			SURF
5		0670	TOTAL		11-20-58	26.7			SURF.
						26.7			SURF.
4		0504	TOTAL		11-21-58	26.1			SURF.
						26.1			SURF.
5		1197	SALINITY		11-24-58	26.2			SURF.
						26.2			SURF.
7		1350	SALINITY		11-24-58 11-1-58	26.7			SURF.
						26.7			SURF.
6		0917	SALINITY		11-26-58	26.6	36.02	4.11	SURF
						22.02	36.94	3.90	91M.
						26.6			SURF.
10		1023	SALINITY		XII-1-58	26.3	36.06	3.62	SURF.
						13.81	35.44	2.01	90M.
						26.3			SURF.
11		2526	SALINITY		XII-8-58	26.9			SURF.
						26.9			SURF.

Name VERA 15 No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (L/3)		
V15-15	39-30N	72-20W	X-18-58	1143	30	SURF	135		
25	32-13	77-10	22	2037	60	SURF	195		
35	27-17	77-08	XI-1-58	1415	60	SURF	214		
oblique 4	25-38	77-07	2	1406	31		289		
45	"	"	"	1410	48	SURF	70		
55	20-30	73-16	4	0622		SURF	162		
65	19-26	75-09	5	0252	90	SURF	193		
75	15-51	75-11	6	0952	60	SURF	101		
85	14-05	75-25	7	1545	65	SURF	85		
95	11-30	75-50	8	2118	60	SURF	115		
105	10-13	78-33	10	0229	110	SURF	335		
115	7-24	79-07	13	2345	30	SURF	25		
125	7-37	79-11	14	0315	40	SURF	89		
135	7-30	79-15	14	0840	30	SURF	94		

Name VEWA 15 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 92

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML./1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						17.9			SURF
						26.7			SURF
						25.9			SURF
						9.47			SURF
						9.47			SURF
						28.6			SURF
						27.3			SURF
						28.9			SURF
						28.7			SURF
						29.1			SURF
						28.9			SURF
						27.9			SURF
						26.7			SURF
						27.6 27.6			SURF

Name VEMA 15 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
V15-132S	00-39S	38-01W	V-8-59	0220	30	SURF	172		
133S	00-12N	39-54W	8	2015	45	SURF	202		
134S	02-30	40-55	9	2230	95	SURF	249		
135S	05-04	41-01	10	2155	30	SURF	216		
136S	06-59	41-04	11	1925	40	SURF	189		
137S	10-31	45-02	14	1540	30	SURF	162		
138S	11-42.5	52.19.5	16	1613	30	SURF	157		
139S	12-24	55-37	17	1415	30	SURF	213		
140S	15-28	64-56	20	2230	90	SURF	331		
141S	17-21	65-11	21	1703	30	SURF	122		
142S	18-33	65-47	27	2307	30	SURF	174		
143S	9-07.5	66-03	28	1223	30	SURF	146		
144S	19-52.5	66-23	29	0046	30	SURF	193		
145S	20-49	66-21	29	1256	30	SURF	172		

Name VEMA 15 No. Experiment No.

Instructor Date

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						26.9			SURF
						27.1			SURF
						27.1			SURF
						26.2			SURF
						26.1			SURF
						26.3			SURF
						26.2			SURF
						27.2			SURF
						26.7			SURF
						27.1			SURF
						26.2			SURF
						26.7			SURF
						26.1			SURF
						26.7			SURF

Name VENA 15 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 42

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
V15-146S	20-49N	66-25W	V-29-59	2251	30	SURF	165		
147S	21-09	66-39	30	2300	60	SURF	139		
148S	22-01	66-22	31	1100	30	SURF	150		
149S	23-09.5	66-32	VI-1-59	1100	30	SURF	165		
150S	22-50	65-01	2	1100	30	SURF	175		
151S	21-28	65-03	3	1000	30	SURF	114		
152S	20-46	65-16	3	2310	30	SURF	125		
153S	21-30	65-17	4	2020	30	SURF	151		
154S	20-22N	66-59W	VI-6-59	1038	30	SURF	101		
155S	21-30	67-00	7	1145	'	SURF	151		
156S	21-30	67-33	8	0850	480	SURF	1251		
157S	19-48	66-36	9	1815	30	SURF	135		
158S	20-21	66-03	10	1100	30	SURF	99		
159S	21-32	66-27	11	0600	60	SURF	164		

Name VEMA 15 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

PLANKTON DISP. VOL. (ML.)	TOTAL PL. DISP. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						25.6			SURF
						26.14			SURF
						24.58			100M
						26.8			SURF
						25.8			SURF
						24.20			100M
						26.6			SURF
						25.8			SURF
						22.85			100M.
						26.4			SURF
						26.4			SURF
						27.1			SURF
						26.9			SURF
						26.9			SURF
						26.6			SURF
						26.7			SURF
						26.6			SURF

Name VENA 15 No. Experiment No.

Instructor Date

CUB 32

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	Vol. H ₂ O FILTERED (m ³)		
V15-160S	20-21N	66-22W	VI-12-59	1010	690	SURF	1935		
161S	19-58.5	66-37	17	1832	190	SURF	188		
162S	25-15.5	72-42	21	1948	120	SURF	78		
163S	24-57	77-47	23	0015	100	SURF	110		
164S	26-27	78-15	24	1000	105	SURF	171		
165S	26-40	79-25	VII-1-59	0050	80	SURF	149		
166S	27-08.5	72-21	2, 3	1950	415	SURF	966		
167S	27-19	76-34	3	1440	110	SURF	153		
168S	26-11	76-27.5	4, 5	2200	188	SURF	242		
OBlique 169	27-29	76-07	5	1106	44		384		
170S	27-29	76-07	5	1103	682	SURF	1662		
171S	27-46	76-41	6	1045	60	SURF	190		
172S	29-07	76-26	7	0520		SURF			
OBlique 173	29-08	76-25.5	7	0840	34		248		

Name VENIA 15 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC	DEPTH
						26.7			SURF
						27.0			SURF
						27.62			SURF
						24.93			100M
						27.3			SURF
						28.4			SURF
						28.5			SURF
						28.8			SURF
						21.46			100M.
						29.78			SURF
						28.0			SURF
						27.4			SURF
						27.2			SURF
						26.7			SURF
						26.3			SURF
						26.3			SURF

Name VEMA 15

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V15-174S	30-31N	75-55W	VII-8-59	0858 0858	312 312	SURF	1328 1328		
OBlique 175	30-31	75-55	8	0902	30		202		
176S	32-34	74-21	9	1345	333	SURF	1307		
177S	37-01	74-36	11	1000	55	SURF	199		
178S	37-39.5	74-04	11	1622	33	SURF	150		
OBlique 179	37-39.5	74-06	11	1626	37		422		
180S	39-23	73-05	12	1327	45	SURF	164		
181S	38-58	72-06	13	1200	440	SURF	1753		
OBlique 182	38-58	72-06	13	1318	32				
MPS 4	11-42.5N	52-19.5W	V-15-59	1402	114				
MPS 5	12-24	55-37	17	1405	60				
MPS 6	15-28	64-56	20	2205	100				
MPS 7	15-51	75-11	XI-6-58	0810					
MPS 10	10-13	78-33	10	0436					
MPS 11	09-42.5	79-42.5	10	1718					

Name VENKA 13 No. _____ Experiment No. _____

Instructor **Date**

CUB 32

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OR SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						27.6			SURF
						27.0			SURF
						26.6			SURF
						21.0			SURF
						20.5			SURF
						20.5			SURF
						22.4			SURF
						22.1			SURF
						22.1			SURF

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V16-1	39-40.5N	72-19W	X-4-59	1150	32	SURF	110		
2	"	"	5	0935	30	SURF	143		
3	"	"	"	1210	29	0-300	110		
4	39-36	72-22.5	6	1823	30	SURF	114		
5	39-41	72-14.5	7	1055	30	SURF	162		
6	39-15	71-13	7	1030	30	SURF	140		
7	38-15	71-13	8	1315	29	0-300	141		
8	36-53.5	69-13	9	1628	25	0-300	144		
9	36-53.5	69-31	"	1625	35	SURF	154		
10	36-00	68-49	10	0025	29	0-300	183		
11	35-57	68-41	"	1037	30	SURF	130		
12	35-55	68-37	"	1745	28	0-300	206		
13	35-11	68-04	12	0835	30	SURF	95		
14	"	"	"	0938	26	0-300	150		

Name VENA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						24.17			SURF
						24.17			SURF
						21.1			SURF
						21.0			SURF
						23.33			SURF
						23.33	34.969	4.85	SURF
						13.94	35.208	4.35	66 M
							35.516	3.58	125 M
						27.72			SURF
						27.72			SURF
						25.28			SURF
						27.06			SURF
						26.67			SURF
						25.8	36.467	4.44	SURF
						21.55	36.586	4.20	106 M
						24.06			SURF

Name UEMA 16

No. Experiment No.

Instructor Date

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M.)	VOL H ₂ O FILTERED (M ³)		
V16-15	35-09.5N	68-00W	X-13-59	0950	30	SURF	145		
16	35-09	68-01	"	1151	26		147		
17	34-57	66-50	14	1157	30	SURF	130		
18	34-57	66-50	14	1250	31	0-300	190		
19	33-37	65-00	16	1230	30	SURF	140		
20	33-37	65-00	"	1316	30 31	0-300	166		
21	33-09	64-27	"	2116	28	0-300	180		
22	3309	64-34	3 "	2216	30	SURF	57		
23	31-57.4	65-13.5	20	1820	30	SURF	119		
24	31-57.8	65-15	21	1003	30	SURF	120		
25	"	"	"	0958	27	0-300	149		
26	31-13	63-59	22	0840	30	SURF	233		
27	"	"	"	0855	26	0-300	220		
28	30-00	63-24	"	2145	30	SURF	117		

Name VENMA 16 No. Experiment No.

Instructor Date

CUB 82

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC.	DEPTH
						26.11			SURF
						26.11			SURF
						26.39			SURF
						26.39			SURF
						28.5			SURF
						28.5			SURF
						25.10			SURF
						25.10			SURF
						24.35	36.587		SURF
						25.10	36.664		SURF
						25.10	36.664		SURF
						25.2	36.456		SURF
						25.2	36.456		SURF
						25.3	36.538		SURF

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V16-29	30-00N	63-24W	X-22-59	2150	30	0-300	208		
30	28-44	63-40	23	0844	28	0-300	199		
31	28-44	63-10	23	0900	30	SURF	199		
32	27-26	62-48	24	1552	30	SURF	149		
33	27-29	62-37	24	2252	29	0-300	321		
34	25-15	62-31	25	1843	30	SURF	58		
35	25-15	62-31	"	2056	28		148		
36	24-42	62-28	26	1054	27	0-300	151		
37	"	"	"	1050	30	SURF	103		
38	22-06	63-04	27	1645	30	SURF	47		
39	"	"	"	1636	32		119		
40	20-55	63-57	28	1310	30 30	SURF	20		
41	"	"	"	1323	26	0-300	63		
42	19-10	60-31.5	X1-4-59	0720	30		193		

Name VENA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 52

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY (‰)	O ₂ CONC	DEPTH
						25.3	36.538		SURF
						26.8	36.450	4.72	SURF
						19.44	36.531	4.88	117M
						26.8	36.450		SURF
						26.15	36.366		SURF
						26.2	36.366		SURF
						27.1	36.801		SURF
						27.1	36.801		SURF
						27.8	36.681		SURF
						27.8	36.681		SURF
						32.22	36.889		SURF
						32.22	36.889		SURF
						28.50	36.484		SURF
						28.50	36.484		SURF
						28.28	34.644		SURF

Name UEMA16

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)		
V16-43	19-10N	60-31.5W	4-59	0735	30	SURF	166		
44	19-12	57-47	5	0815	30	SURF	100		
45	19-04	53-47	6	2005	30	SURF	66		
46	17-56	50-21	8	1630	30	SURF	41		
47	17-56	50-21	8	1631	28	0-298	83		
48	17-16.5	48-25	9	0953	27	0-300	128		
49	"	"	"	0955	30	SURF	110		
50	16-24	45-46	10	1025	30	SURF	169		
51	14-13	41-47	"	2110	30	SURF	105		
52	13-40	41-11	12	0700	31	0-300 ± 3	440		
53	13-15	40-40	"	1617	28	0-300	194		
54	12-20	39-27	13	0729	30	SURF	44		
55	05-04	36-48	15	1842	30	SURF	97		
56	02-47	35-42	16	1830	30	SURF	168		

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						28.28	34.644		SURF
						28.33	34.842	4.62	SURF
						23.66	37.077	4.29	121M
						27.94	35.363	4.31	SURF
						23.29	37.117	4.37	120M
						27.33	36.797	4.38	SURF
						24.36	37.210	4.74	97M
						27.33	36.797		SURF
						27.78	35.064	4.38	SURF
						25.06	37.079	4.74	100M
						27.78	35.064		SURF
						26.78	36.650	4.38	SURF
						29.66	36.766	4.72	100M
						26.67	36.504	4.50	SURF
						20.37	36.735	3.67	105M
						27.22	36.148		SURF
						26.67	36.150		SURF
						27.06	35.798	4.48	SURF
						15.66	35.931	2.55	112M
						28.22	35.945	4.53	SURF
						21.539	36.140		114M
							(36.130	4.45	84M.)
						27.50	35.631	4.49	SURF
						26.39	36.145	4.23	106M

Name VEMA 16

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)		
V16-57	02-47N	35-42W	11-16-59	2006	26	0-300	253		
58	00-12	34-55.5	17	1744	30	SURF	142		
59	09-05S	32-57W	23	1233	30	SURF	48		
60	10-35S	31-02W	24	1240	30	SURF	91		
61	10-35	31-06	24	1558	22	0-300	153		
62	11-08.5	29-16.5	25	1503	30	SURF	172		
63	11-44	27-37	26	1222	102	SURF	368		
64	13-05	24-40	27	1820	30	SURF	92		
65	13-54.5	22-47	28	2013	43	SURF	68		
66	15-20	19-43		1055	31	SURF	160		

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

PLANKTON DISPX. VOL. (ML.)	TOTAL PL. DISPX. VOL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						27.50	35.631		SURF
						27.22	36.004	4.58	SURF
						21.95	36.176	4.00	108M
						26.94	36.224		SURF
						26.75	36.275		SURF
						26.75	36.275		SURF
						26.33	36.392		SURF
						26.11	36.522		SURF
						24.89	36.879		SURF
						24.56	36.617		SURF
						23.94	36.885		SURF

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (ml)		
V16-254	45-37N	60-09W	VIII-9-60	1810	40	0-8.5			
255	45-57	58-11	10	1035	15	0-8.5			
256	46-38	55-06	11	1430	35	0-8			
257	47-51	51-50	13	1920	13	0-5			
258	48-54	51-08	14	1310	38	0-8			
259	52-29	54-25	16	1638	34	0-8			
260	53-40	55-12	17	1035	3	0-8			
261	54-06	54-37	"	2325	15	0-8			
262	56-58	51-33	19	1800	45	0-8			
263	59-04	48-30	20	1815	45	0-8			
264	60-10	47-08	21	1220	150	0-12			
265	60-47.3	45-38.8	24	0745	45	0-12			
266	60-03	50-50	26	1253	150	0-8			
267	58-22	52-18	27	1841	37	0-8			

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

PLANKTON DISPL. VOL. (ML)	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						19.00			SURF
						18.10			SURF
						15.60			SURF
						16.00			SURF
						16.00			SURF
						9.40	30.073	7.04	SURF
						-1.08	33.530	7.44	99M
						9.00	30.334	7.37	SURF
						-0.93	33.174	7.48	99M
						8.10			SURF
						9.80			SURF
						8.60			SURF
						7.80	34.403	6.75	SURF
						7.79	34.946	6.21	88M
						6.50	30.496		SURF
						0.51	33.325		99M.
						8.50	34.504	3.91	SURF
						3.65	34.699	3.86	86M
						9.22			SURF

Name VEMA 16 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (m ³)		
V16-268	56-42N	54-12W	VIII-28-60	1810	110				
269	"	"	"	1835	25	0-12			
270	55-37	56-08	29	1040	27	0-12			
271	55-48	56-00	30	1455	26	0-10			
272	55-32	58-31	31	1400	44	0-10			
273	55-35	58-07	31	1918	27	0-10			
274	52-18	55-26	IX-4-60	1625	85	0-10			
275	51-01	57-10	5	2120	57	0-10			
276	50-15	58-23	6	1605	30	0-10			
277	47-16	59-29	7	2230	30	0-8			
278	46-54	58-33	8	1105	30	0-8			
279	44-59	60-46	11	1406	14	0-10			
280	39-45	72-01	19	2035	35		184		

Name VENA / 6 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC	DEPTH
						8.33			SURF
						8.33			SURF
						6.67 3.83	34.052 34.752	7.08 6.32	SURF 101M
						7.28			SURF
						4.6 -0.98	31.799 32.443	7.26 7.11	SURF 99M
						2.72			SURF
						6.11 -1.47	30.024 32.587	6.98 7.35	SURF 99M
						13.44			SURF
						14.72			SURF
						12.33			SURF
						13.11			SURF
						18.0 1.83			SURF 112

Name VEMA 14 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 92

	CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)		
✓	V17-1-100	34-29N	68-28W	XII-11-60	1335	25	0-150	72		
	1-2A	34-29	68-28	11	1406		0-50			
	1-2B	34-29	68-28	11	1406		50-100			
	1-2C	34-29	68-28	11	1406		100-150			
✓	2-1	28-29	65-03	15	1015		500-1000			
✓	3-1	19-50	67-24	18	1340	65	0-5	894		
✓	4-1	19-58	68-08	20	1400		0-300	258		
	4-2	19-58	68-08	20	1400		0-3	1332		
✓	V-17-22-1	18-32	81-29	11-11-61	1105		SURF	755		
	23-1	11-45	80-25	13	1915		500-1000	1319		
	23-2	11-45	80-25	13	2007		0-400	402		
	23-3	11-45	80-25	13	1920		SURF	763		

Name Uema 17 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C.	SALINITY ‰	O ₂ CONC	DEPTH
						21.0 21.0			SURF
						22.1			90M
						21.0			SURF
						22.1			90M
						21.0			SURF
						22.1			90M
						21.0			SURF
						22.1			90M
						23.3			SURF
						20.0			90M
						27.0			SURF
						25.0			90M
						27.0			SURF
						26.6			72M
						27.0			SURF
						26.6			72M
						27.0			SURF
						26.7			SURF
						26.6			78M
						26.7			SURF
						26.6			78M
						26.7			SURF
						26.6			78M

Name JEMA 17 No. Experiment No.

Instructor Date

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED M ³	TYPE OF TOW
✓ U17-72	26°-50.5N	32°-08.2W	VII-25-61					BPS MPS
72S	26-51	32-08	25	1735	60		493	SURF.
✓ 73S	27-58	34-09	26	0850	45	0-10	165	SURF.
730	27-58	34-09	26	1003	52	0-300	352	OBL.
74S	28-28	35-02	26	1937	36		152	SURF.
✓ 740	28-28	35-02	26	1820	18 60	0-300	215	OBL.
750	29-37	36-57	27	1313	43	0-300	147	OBL.
75S	29-37	36-57	27	1155	60		208	SURF.
76S	29-59	37-31	27	1810	65	-	532	SURF
76	29-59	37-31	27					MPS BPS
770	32-44	41-53	29	0740	23	0-300	168	OBL.
77s	32-44	41-53	29	0556	84		217	SURF
78	33-16	42-42	29					MPS BPS
78S	33-16	42-42	29	1656	69		216	SURF

Name VENA 17 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

PLANKTON DIS. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						24.2			SURF
						20.6			90M
						24.2			SURF
						20.6			90M
						24.1			SURF
						20.7			90M
						24.1			SURF
						20.7			90M
						24.3			SURF
						20.6			90M
						24.3			SURF
						20.6			90M
						25.3			SURF
						21.0			90M
						25.3			SURF
						21.0			90M
						24.8			SURF
						20.0			90M
						24.8			SURF
						28.0			90M
						25.9			SURF
						25.9			SURF
						26.1			SURF
						17.5			90M
						26.1			SURF
						17.5			90M

Name VEMA 17

No. Experiment No.

Instructor Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED ₃	TYPE OF TOW	
V17-79s	34-56N	45-21W	VII-30-61	1640	90		(450)	SURF	
79	34-56	45-21	30					BPS MPS	
80s	35-45	47-05	31	1423	67		500	SURF	
80	35-45	47-05	31					BPS MPS	
81s	37-30	50-05	VIII-1-61					SURF-OBL.	
81	37-30	50-05	1					BPS MPS	
82s	38-49	52-42	2					SURF-OBL.	
83	39-21	53-47	2					MPS BPS SURF	
84s	40-39	55-58	3	1013	60	0-10	354	SURF	
840	40-39	55-58	3	1225	44		(283)	OBL.	
85	41-18	57-12	3					BPS SURF MPS	
86s	42-30	59-06	4	1014	60	0-10	219	SURF	
86	42-30	59-06	4					MPS BPS	
87	43-01	59-51	4					BPS SURF MPS	
88s	43-38	61-27	5					SURF A-B	

Name Verna 17 No. Experiment No.

Instructor Date

CUB 82

PLANKTON DISPH. VOL. (ML.)	TOTAL PL. DISPH. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						26.3			SURF
						17.2			90M
						26.3			SURF
						17.2			90M
						26.0			SURF
						26.0			SURF
						25.7			SURF
						25.7			SURF
						17.2			90M
						24.9			SURF
						18.4			90M
						26.5			SURF
						23.1			90M
						23.6			SURF
						14.7			90M
						23.6			SURF
						14.7			90M
						23.0			SURF
						14.4			90M
						22.7			SURF
						15.5			84M
						22.7			SURF
						15.5			84M
						18.4			SURF
						17.0			SURF